

Fig. 1A

SUS1	SEQ ID NO: 1	<u>ENGIL</u> RK WISRFDVWPYL	native
SUS2	SEQ ID NO: 3	<u>ENGIV</u> RK WISRFEVWPYL	native
SS2	SEQ ID NO: 10	<u>GIV</u> RK WISRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV RK WI(NH2)	inactive
SS12	SEQ ID NO: 12	<u>GIV</u> RK WISRFEVWPYL(NH2)	active
SS15	SEQ ID NO: 13	<u>GIV</u> RK AISRFEVAPYL(NH2)	less active
SS16	SEQ ID NO: 14	<u>SRFEVWPYL</u> (NH2)	less active
SP3	SEQ ID NO: 18	^N RR ISSVE ^N ^N DKK (NH2)	inactive
NR11	SEQ ID NO: 15	GPTL KR IASTAFMNTTS KK	inactive
SP26	SEQ ID NO: 16	GRM RR IATVEM KK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	<u>EHGIVTNWDDMEKIWHHTFY</u>	consensus

Double basic cluster: black box; e.g. **KK**
Possible region of specificity: underlined or boxed
Substitutions: bold

Fig. 1B

EN

GIVRK

WI

SRFEVW

PYL

KK

X_4

X_3

X_2

X_1

X_5

X_6

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	<div>SRFEVW</div>
SEQ ID NO:17	X_2-X_1	<div>WIS</div> <div>SRFEVW</div>
SEQ ID NO:14	X_1-X_5	<div>SRFEVW</div> <div>PYL</div>
SEQ ID NO:23	$X_2-X_1-X_5$	<div>WIS</div> <div>SRFEVW</div> <div>PYL</div>
SEQ ID NO:12	$X_2-X_1-X_5$	<div>GIVRK</div> <div>WIS</div> <div>SRFEVW</div> <div>PYL</div>
SEQ ID NO:10	$X_3-X_2-X_1-X_5$	<div>GIVRK</div> <div>WIS</div> <div>SRFEVW</div> <div>PYL</div> <div>KK</div>
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	<div>ENG</div> <div>GIVRK</div> <div>WIS</div> <div>SRFEVW</div> <div>PYL</div> <div>KK</div>

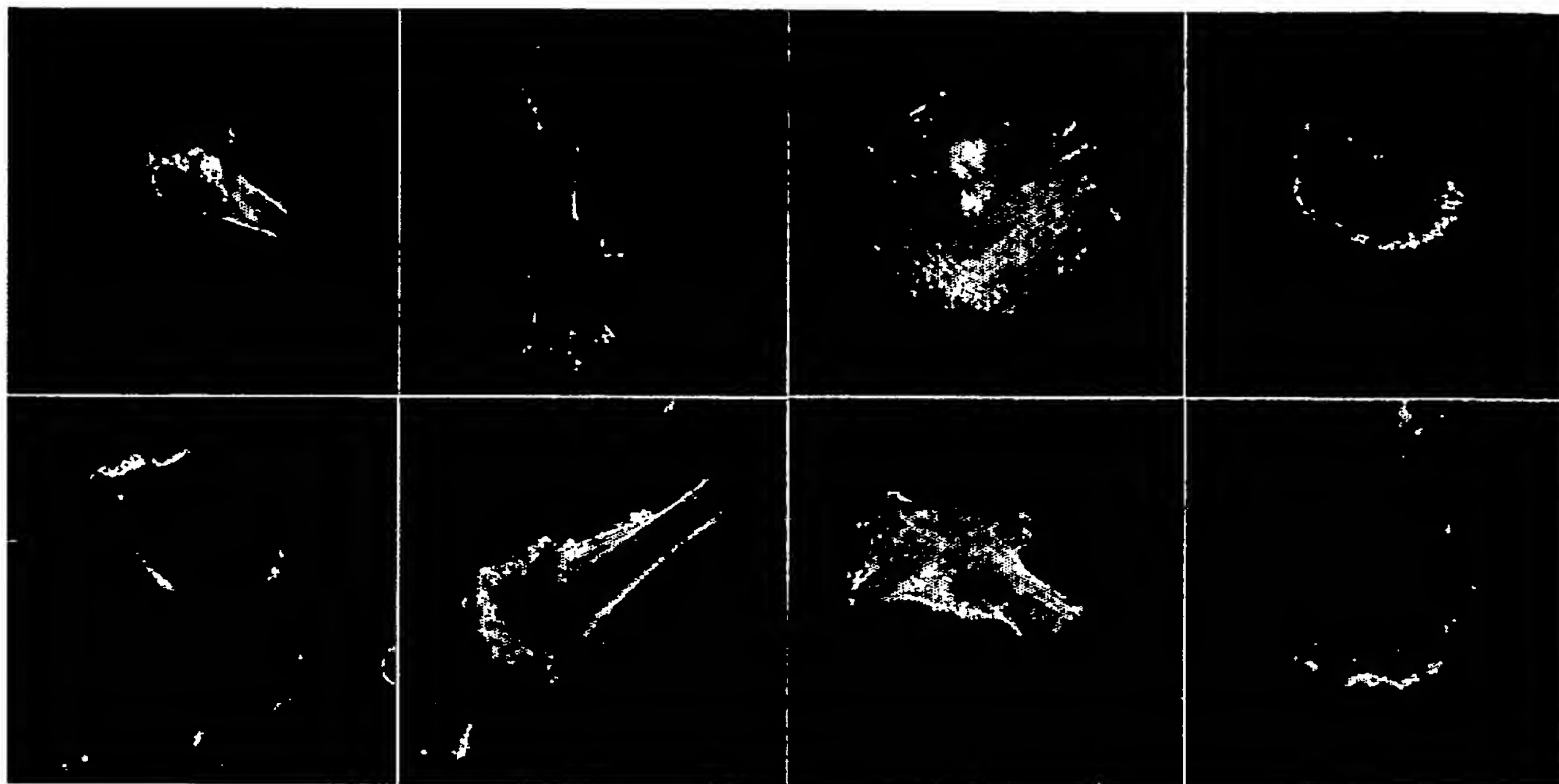
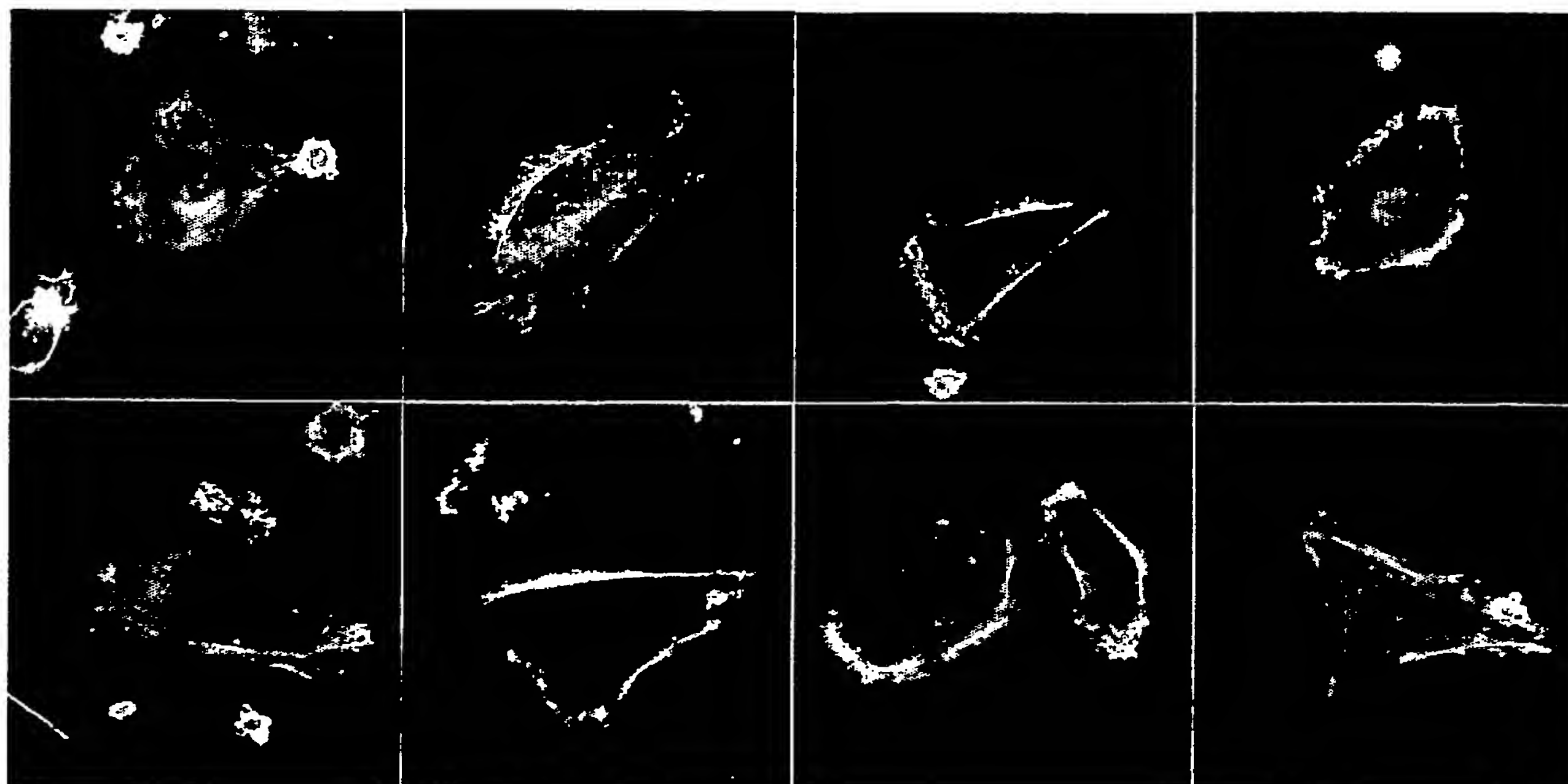
Fig. 2**A****B**

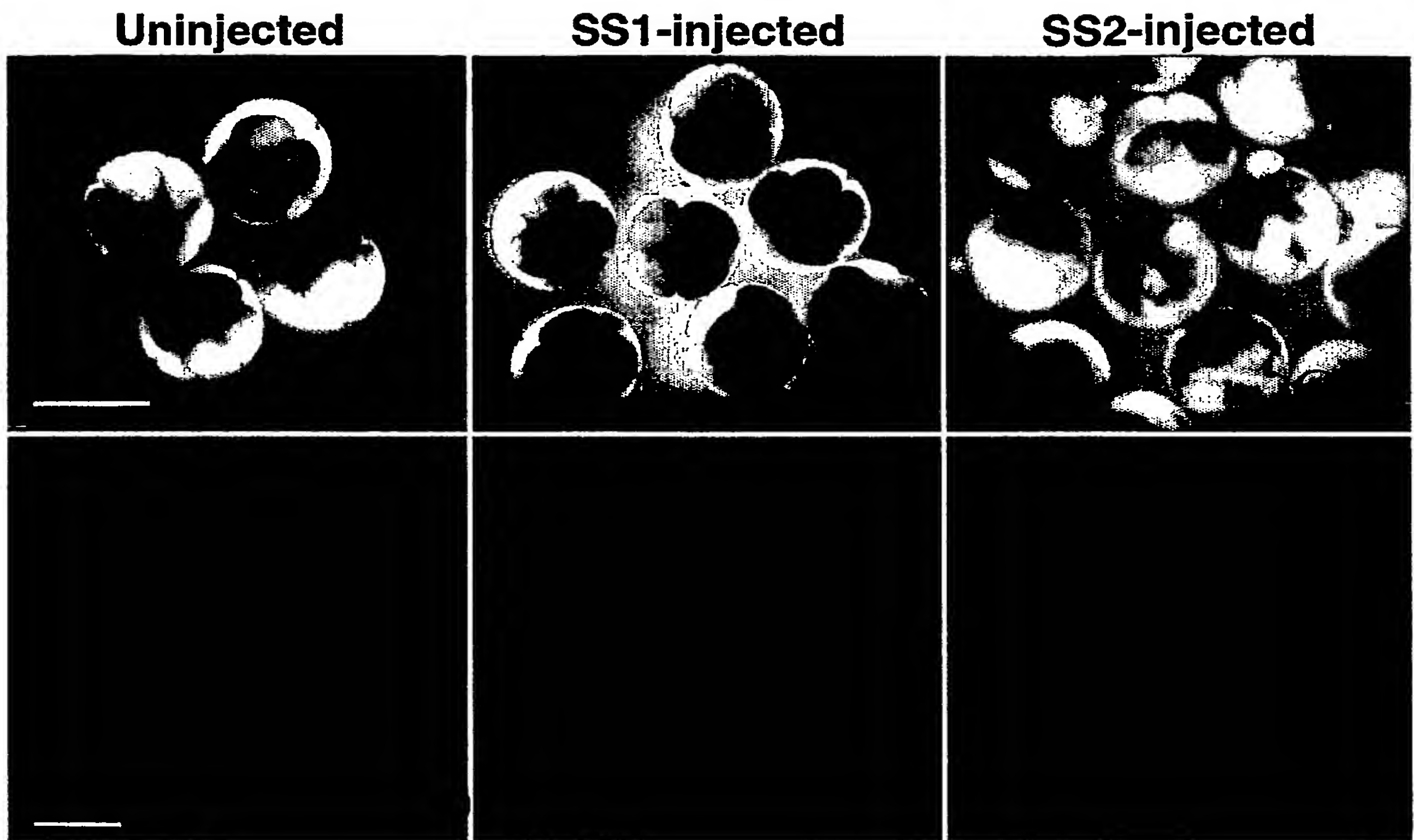
Fig. 3

Fig. 4

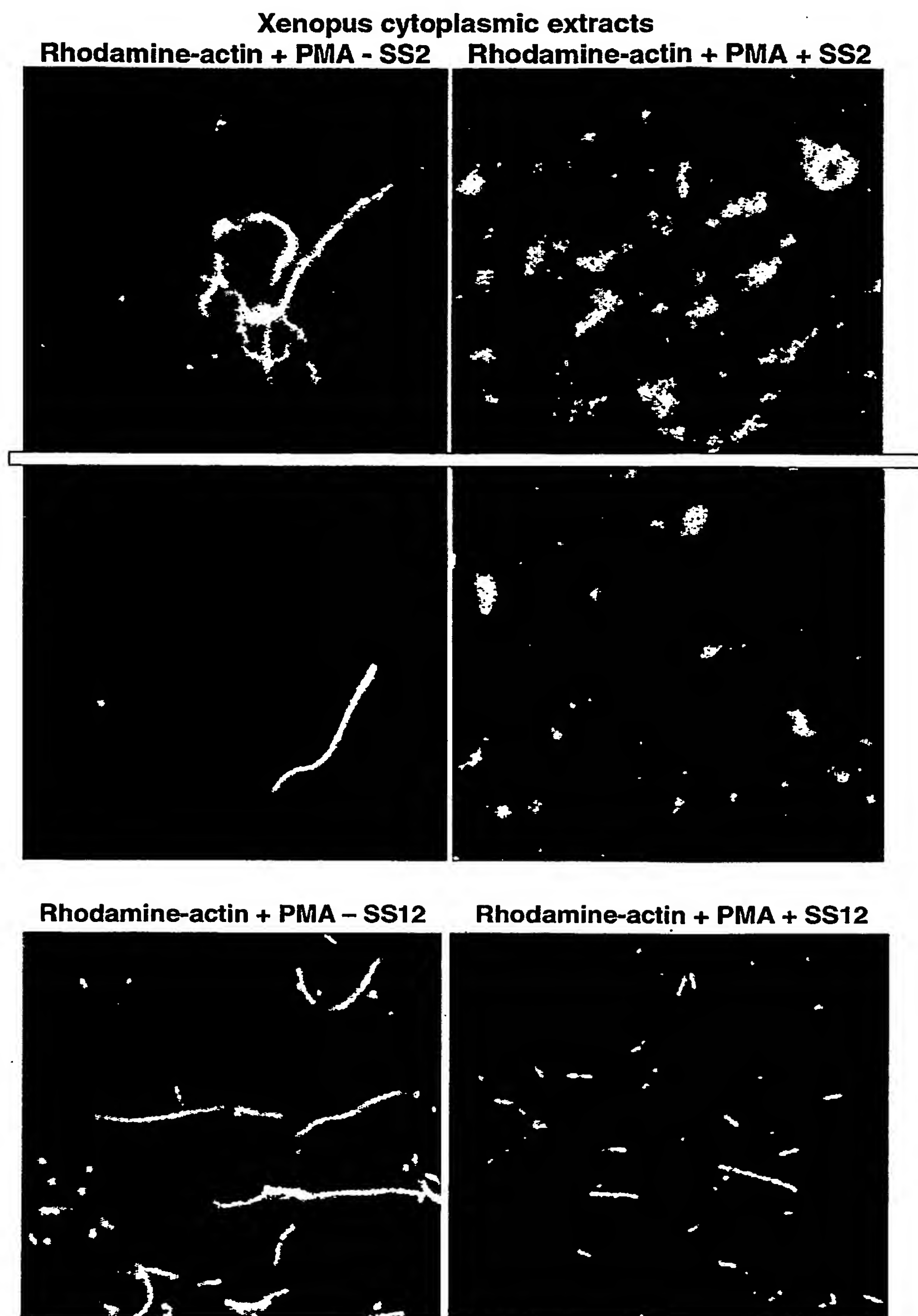


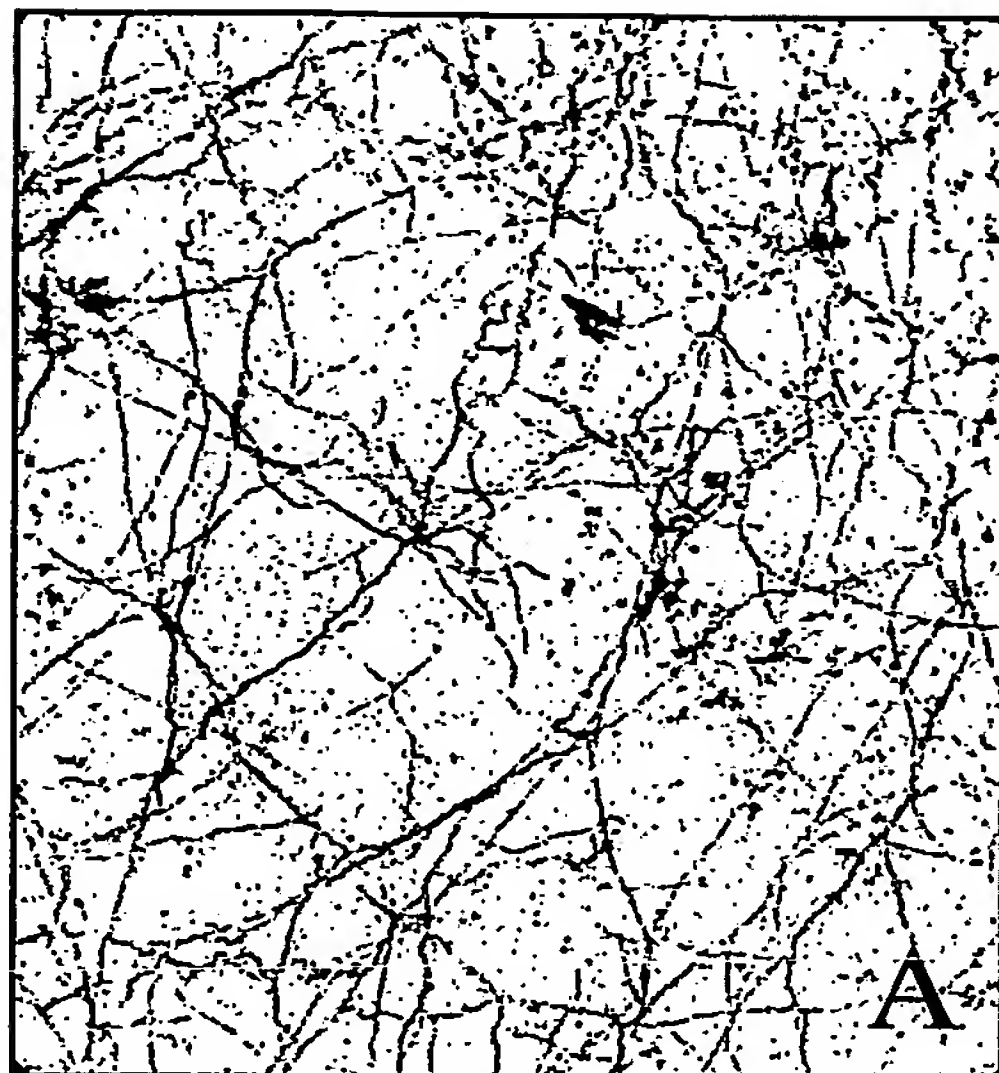
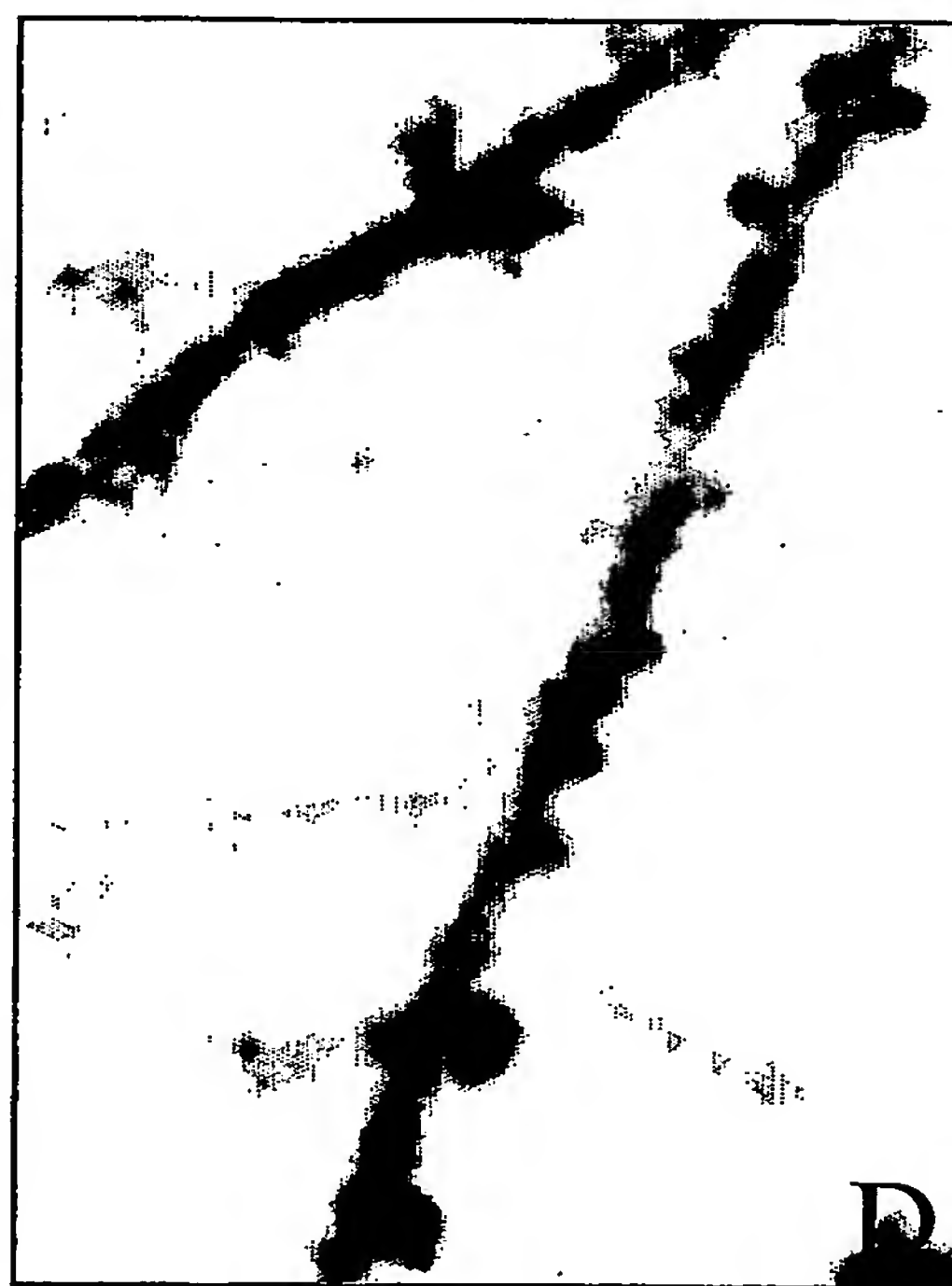
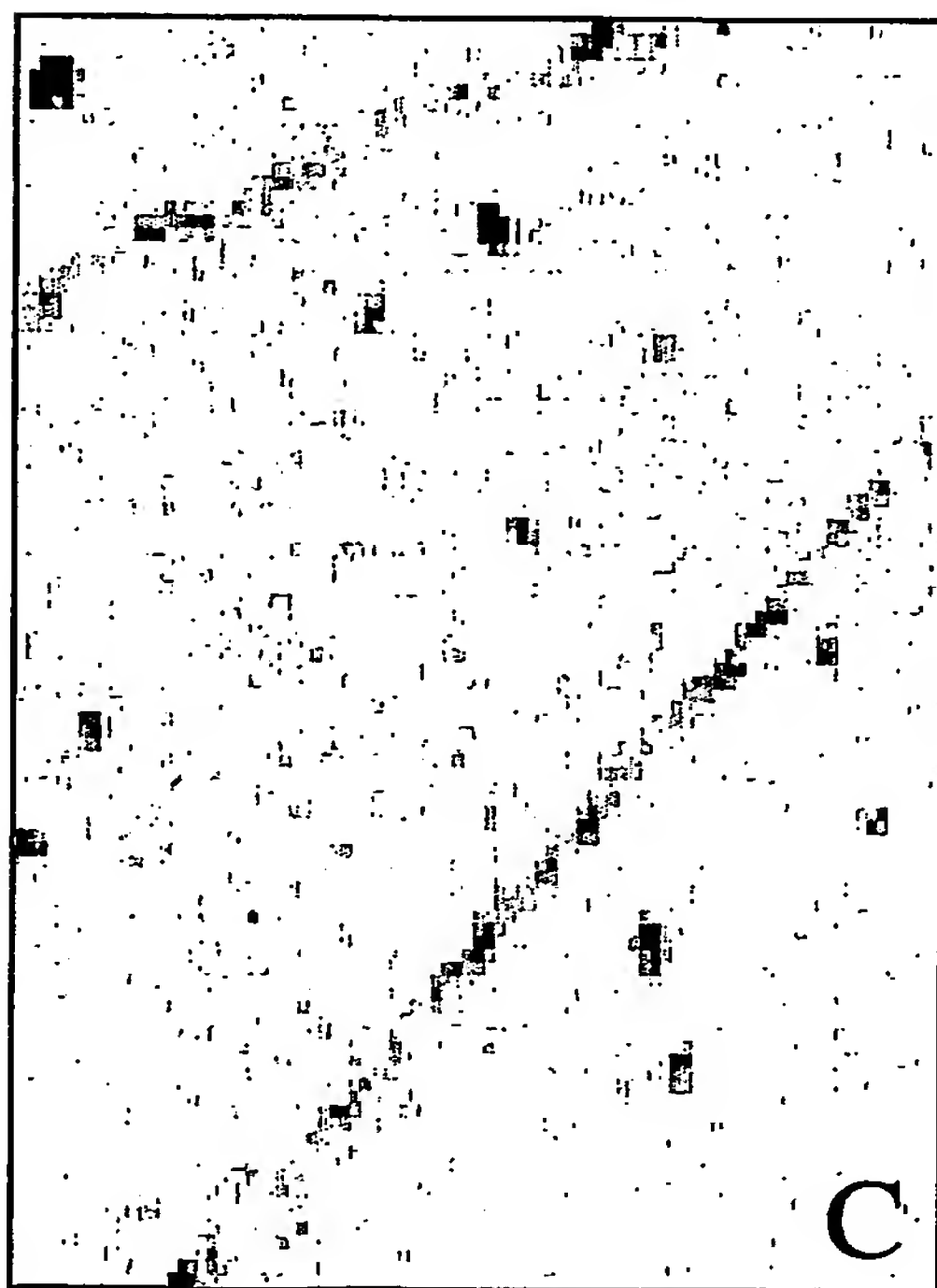
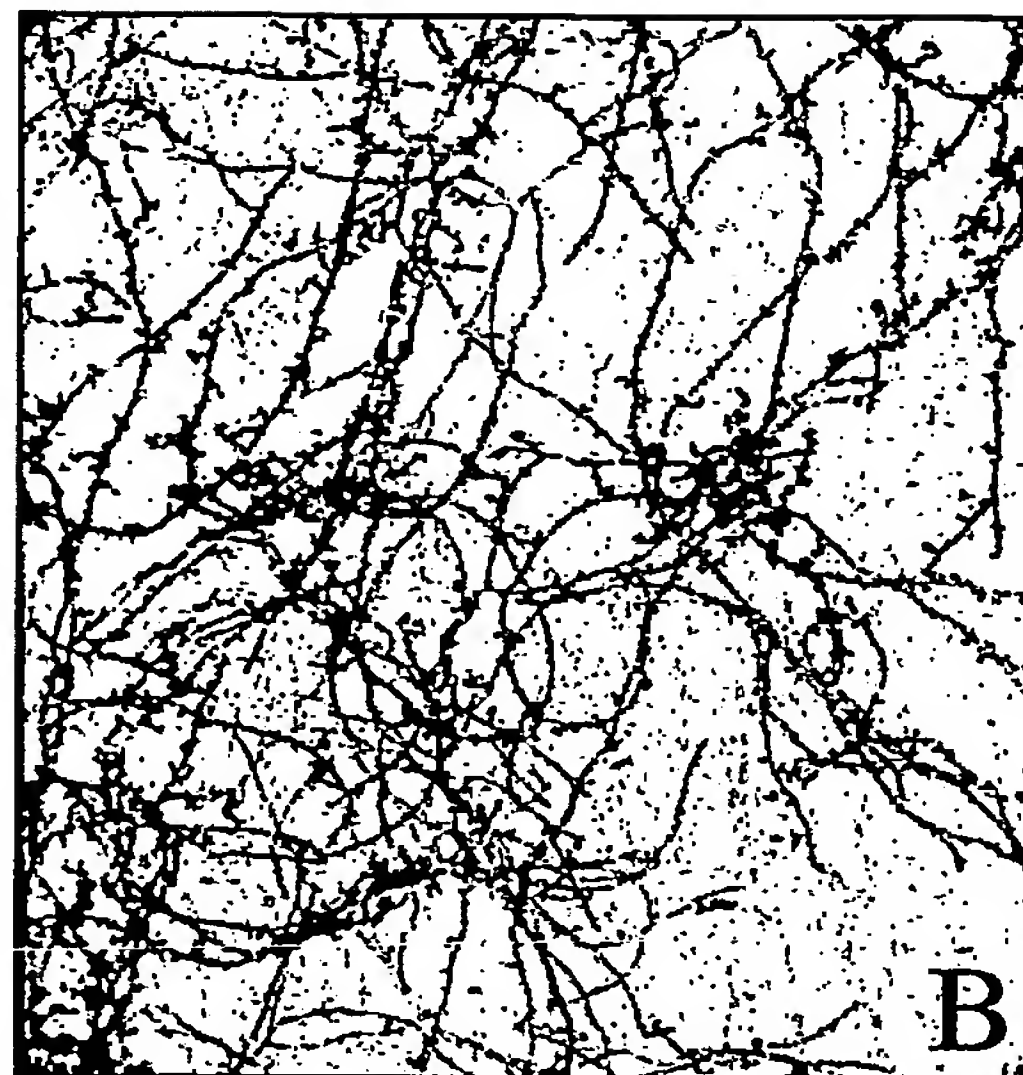
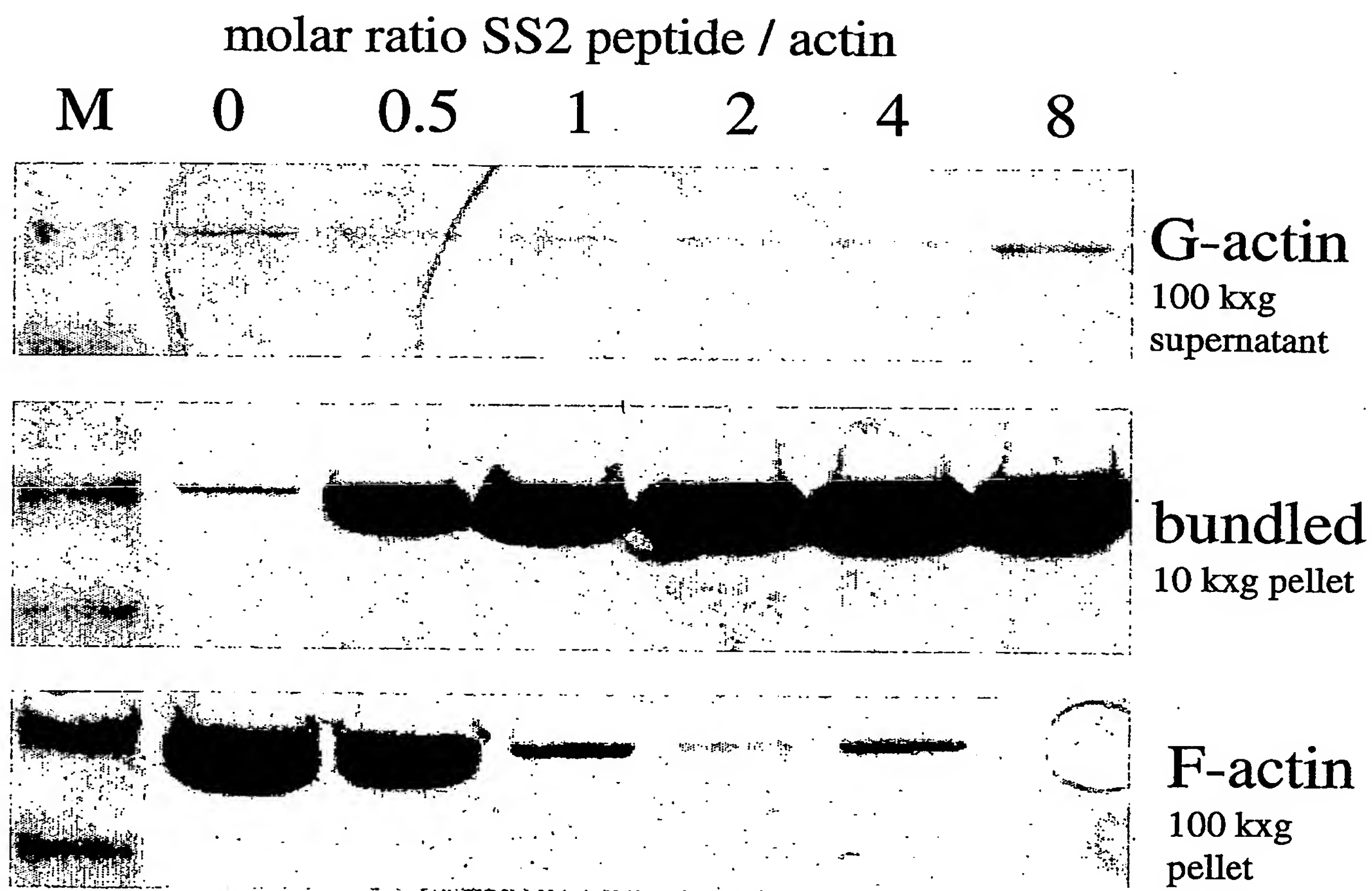
Fig. 5**control****SS12**

Fig. 6A

Effect of SS2 on polymerized F-actin in vitro

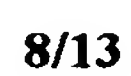


Fig. 6C

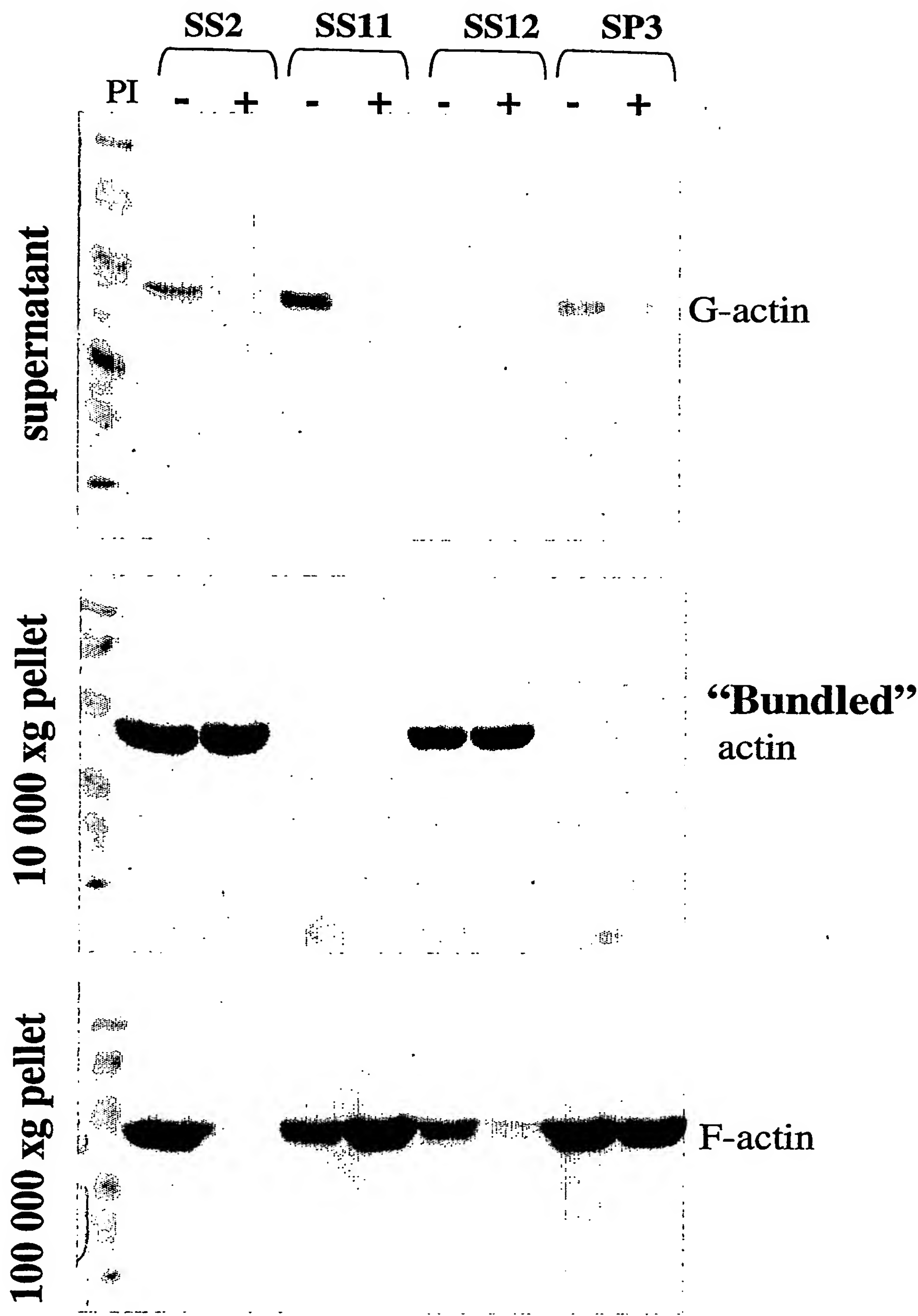


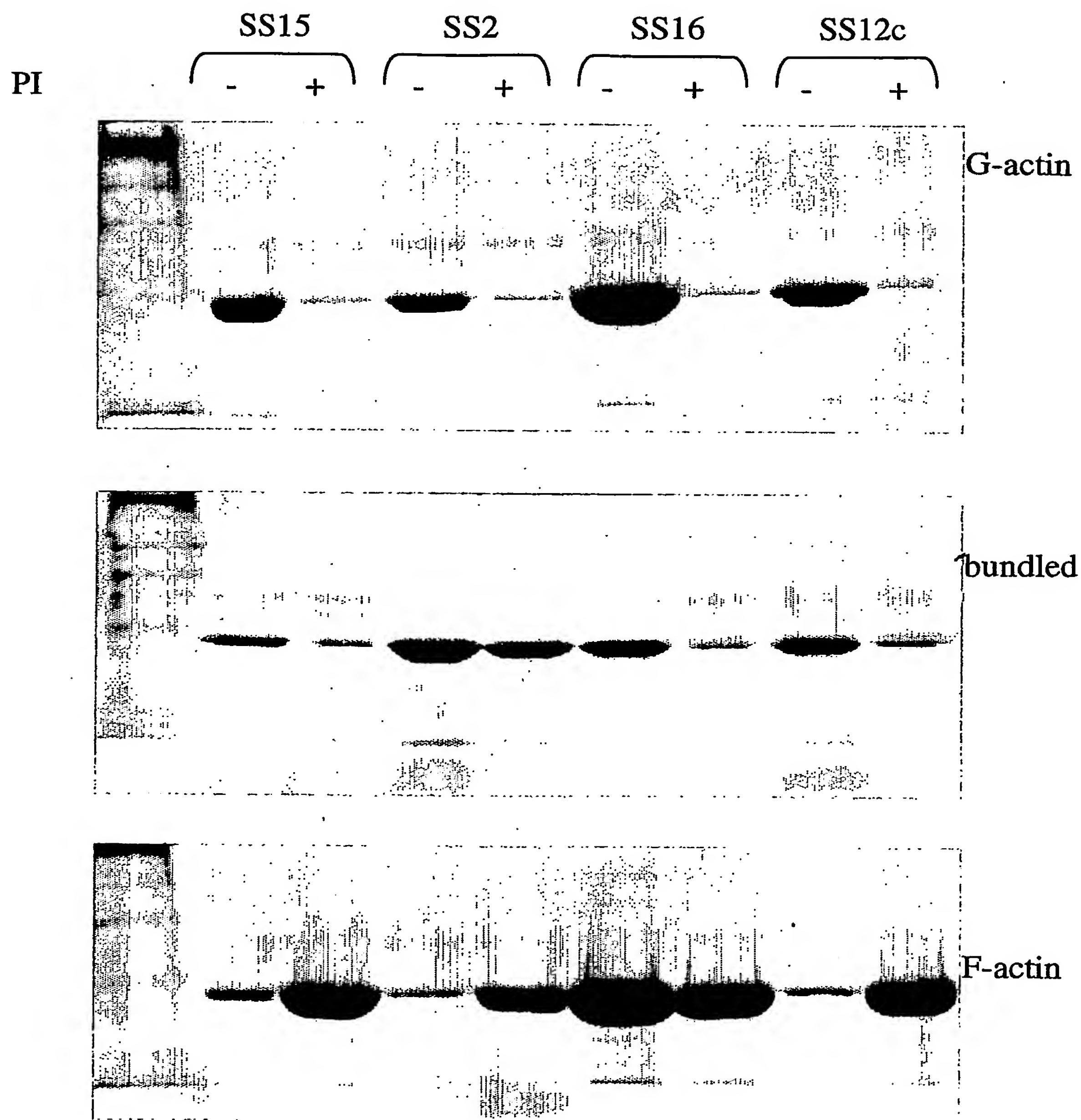
Fig. 6D

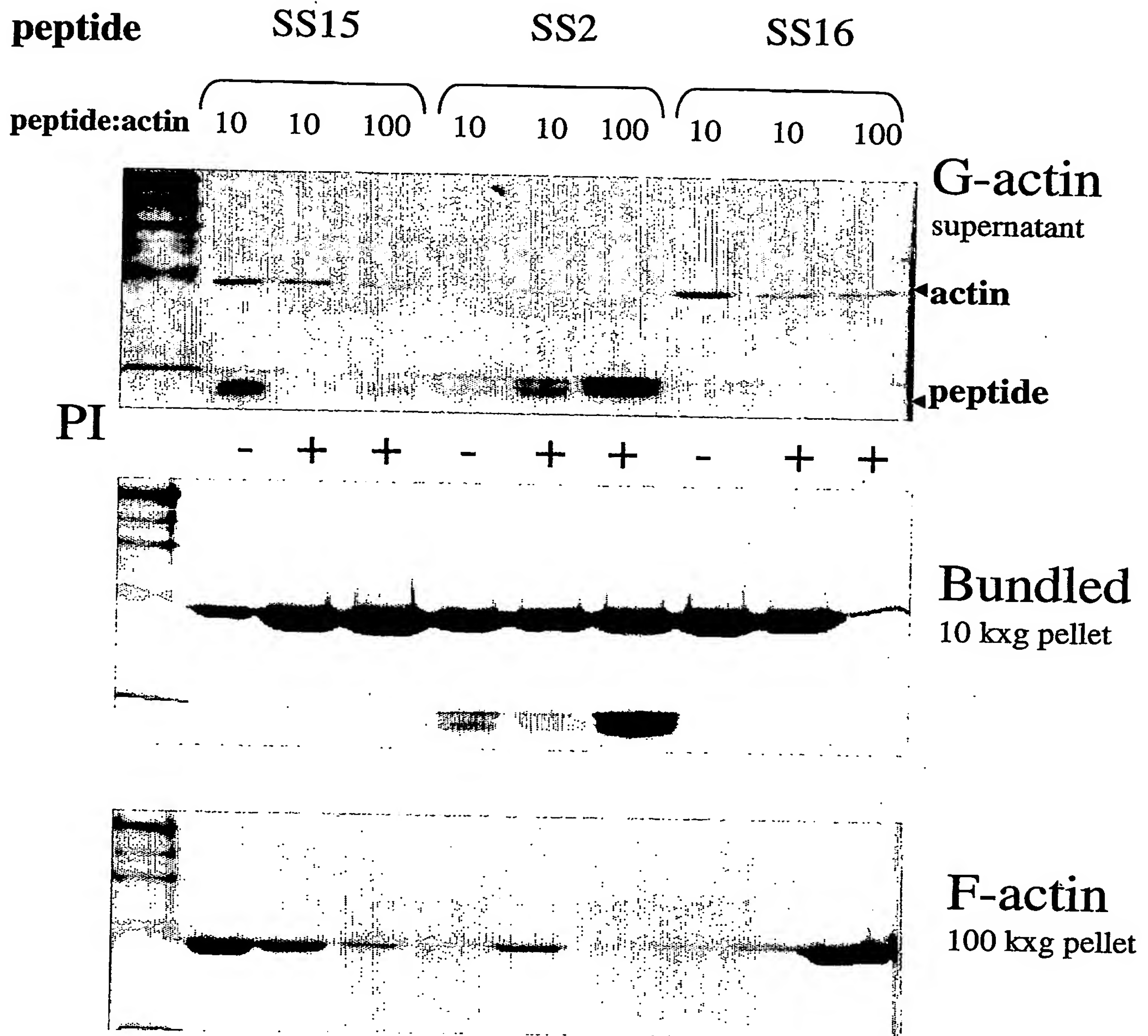
Fig. 6E

Fig. 6F

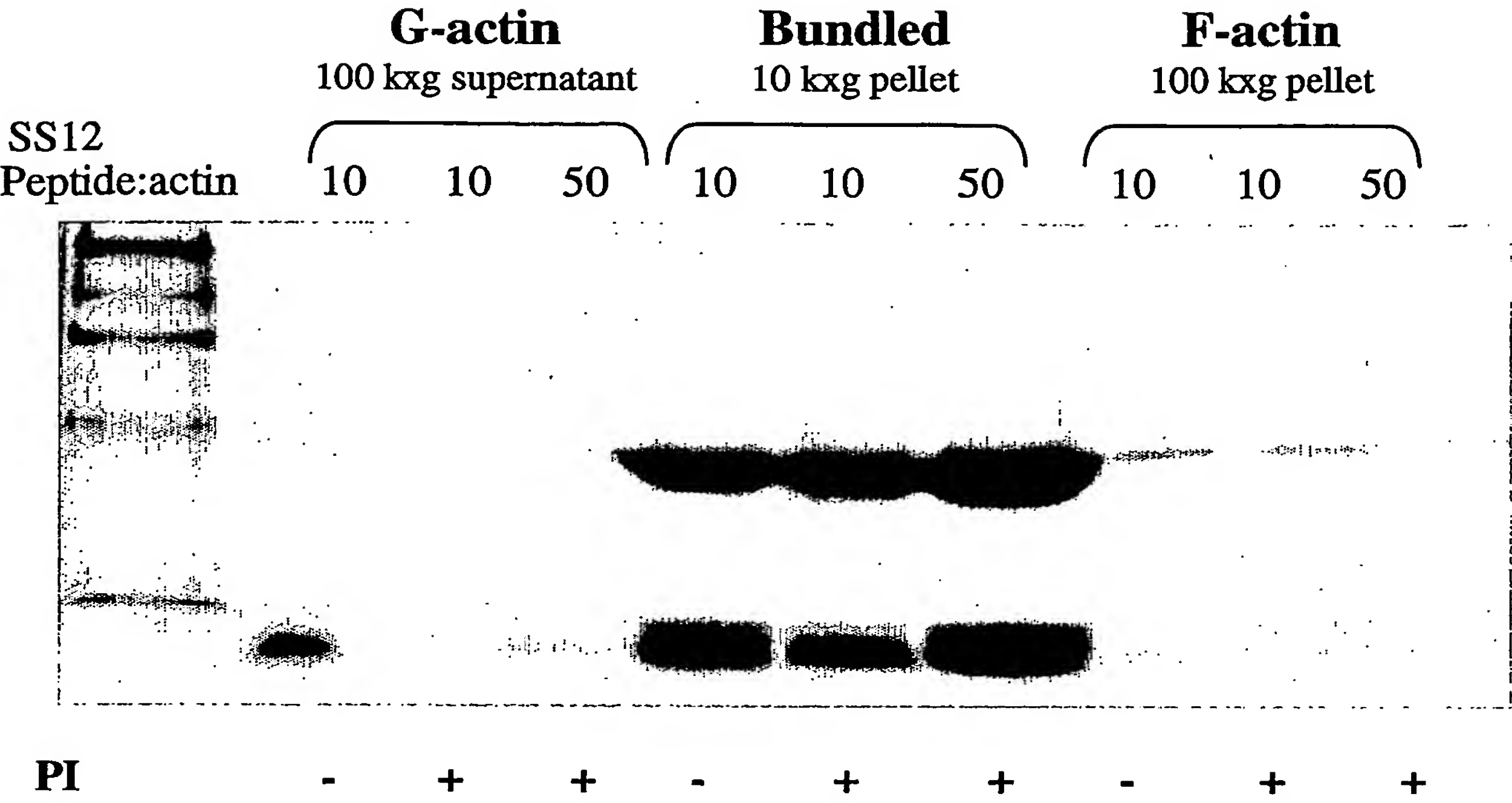
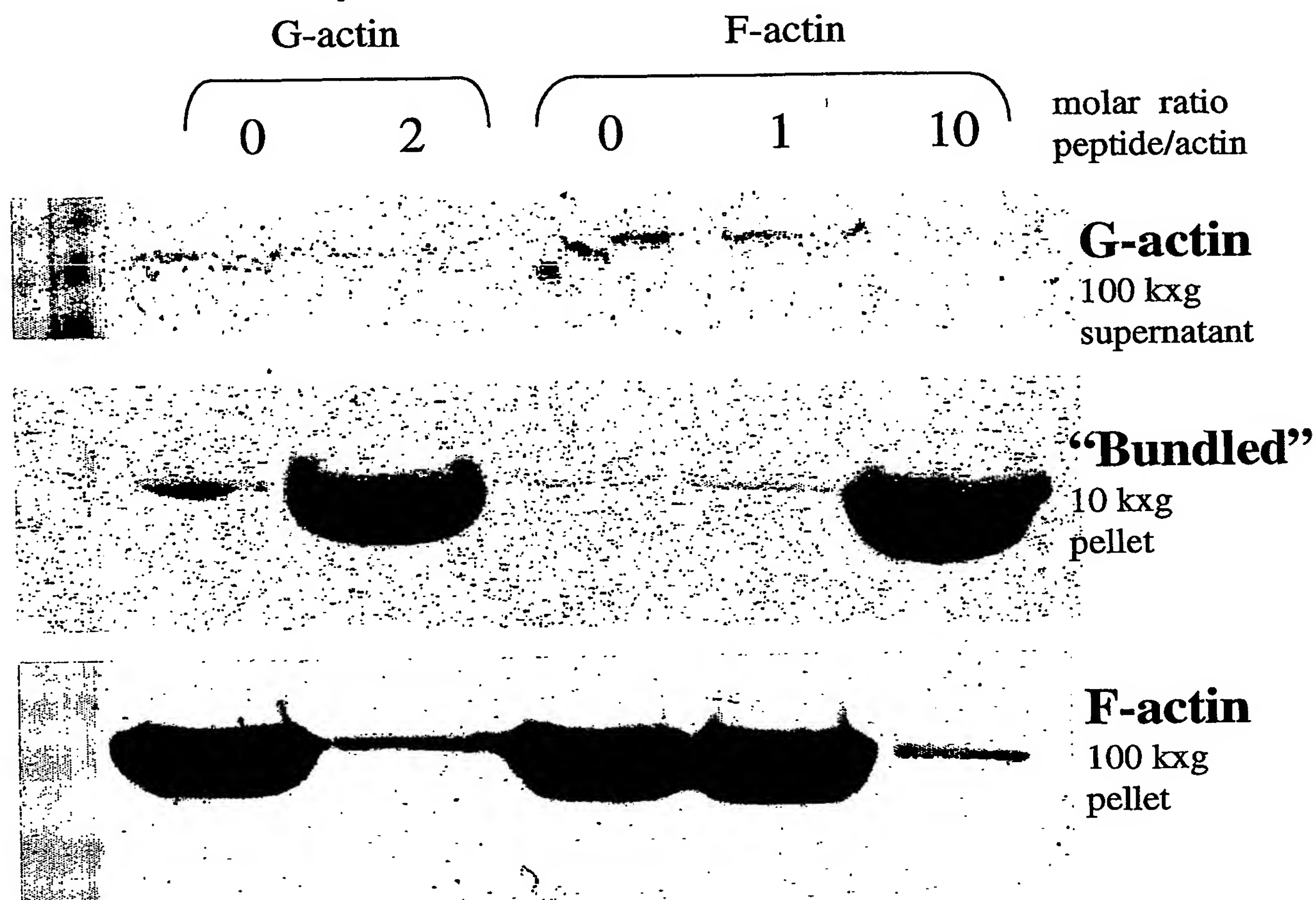


Fig. 7

SS2 bundling activity is not affected
by phalloidin



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